Presentation Abstract

Session Title: Shared Vision Planning and Modeling for California Water Management
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Institute for Water Resources, U.S. Army Corps of Engineers
Hydrologic Engineering Center, U.S. Army Corps of Engineers
California Department of Water Resources

Summary: Collaborative approaches that integrate the technical and decision-making components of water resources management are becoming more common. This session will describe the Shared Vision Planning technique developed and applied over the last fifteen years by the Institute for Water Resources. The session is intended to introduce basic concepts of the collaborative planning approach, demonstrate some modeling tools, and suggest implications for California water planning.

Moderator: Rich Juricich, California Department of Water Resources

Talk #3: Beth Faber, Hydrologic Engineering Center
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Using HEC Tools to Support Shared Vision Planning

Most applications of SVP involve the development of original, customized decision support tools using generic software packages such as STELLA. Yet in many cases a well-established hydrologic or hydraulic model, such as those developed by the Hydrologic Engineering Center, is either already in use and trusted, or is desired by managers for design or for day-to-day operation. Therefore, there is a need for strategies and software to integrate existing water resources-specific models such as HEC-ResSim, HEC-PRM, or others into a collaborative process like SVP. This talk will highlight past experience and future plans for integrating HEC models into an SVP process. Implications for integrating other types of sophisticated models (e.g. QUAL2E, ModSim) into collaborative modeling efforts will be discussed with reference to past and ongoing SVP efforts.